

FP-1300/1310R
RED DEVELOPER

SECTION V - REACTIVITY DATA

Stability	Instable		Condition to Avoid	Abnormally high temperature.
	Stable	✓		
<u>Instability-Details-to-Avoid:</u>				
Hazardous Decomposition or Hydrolysis				
				None in normal handling and use.
Hazardous Polymerization	May Occur		Condition to Avoid	Abnormally high temperature.
	Will Not Occur	✓		

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation ?	Skin ?	Ingestion ?
	✓	✓	✓
Health Hazard (Acute and Chronic)			
Health hazard is minimal being neither irritating, corrosive, volatile, nor toxic. Mutagenicity is negative.			
Carcinogenicity:			
	MIP ?	IARC Monographs ?	OSHA Regulated ?
Not use carcinogens which are listed in NTP, IARC and OSHA.			
Signs and Symptoms of Exposure			
Contact with eyes may result in mechanical irritation. Inhalation of dust may irritate mucous membranes. Ingestion may result in gastric disturbances.			
Hazardous Conditions			
Generally Aggravated by Exposure	EYES-----	Immediately wash eyes with running water for 15 minutes. If irritation develops, get medical attention.	
Emergency and First Aid Procedures	SKIN-----	Wash affected areas with soap and water. If irritation develops, get medical attention. Remove and launder contaminated clothing before reuse.	
	INGESTION----	If swallowed dilute with water and immediately induce vomiting. Get medical attention if the victim is unconscious or having convulsion.	
	INHALATION----	Remove to fresh air area. Aid in breathing if necessary and get medical attention.	

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled	Vacuum or sweep up dry powder.
Waste Disposal Method	Dispose in accordance with local, state and federal regulations.
Precautions to Be Taken in Handling and Storage	Avoid dust inhalation and skin contact.
Other Precautions	Keep containers closed. Store in a cool, dry place.

SECTION VIII - CONTROL MEASURES

Respiratory Protection (Specify Type)			
None required under normal use.			
Ventilation	Local Exhaust	None required under normal use.	Special
	Mechanical (General)	None required under normal use.	Other
Protective Clothing	None required under normal use.	Eye Protection	None required under normal use.
Other Protective Equipment	None required under normal use.		
Work/Hygiene Practices	Minimize breathing dust.		

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MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

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Material Safety Data Sheet

FP-1300/1310R
RED TONER

(This Form is Similar to U.S. Labor Dept. Form Approved OGD No. 1218-0072)

SECTION I

Date: Jan. 8, 1988

Product Name	Panasonic Dry Toner FQ-T10CR-PC	Chemical Name & Synonyms	Electrostatic Toner
Product Class	Inert resinated red powder	Emergency Phone No.	Matsushita Electric Industrial Co., Ltd. Japan 0286-63-3221

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	CAS #	%	LISTED AS A HAZARDOUS			
			OSHA PEL	OSHA PEL	ACGIH TLV	ACGIH TLV
C.I. Pigment Red 48:2	15782-05-5	1-6	NL	NL	NL	NL
Iron Oxide	1309-37-1	5-10	NL	NL	NL	NL
Titanium Oxide	13463-67-7	15-20	L	15.0mg/m ³	L	10.0mg/m ³
Resin	25167-47-9	75-80	NL	NL	NL	NL
Resin	9003-07-0		NL	NL	NL	NL
Additive	7631-86-9	(1	L	80.0mg/m ³	L	10.0mg/m ³
Additive	78869-85-3	1-6	NL	NL	L	0.5mg/m ³

TLV of the Product: 10 mg/m³ (Total Dust), 5 mg/m³ (Respirable)
PEL of the Product: 15 mg/m³ (Total Dust), 5 mg/m³ (Respirable)

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	Not applicable.	Specific Gravity (H ₂ O = 1)	1.3
Vapor Pressure (mm Hg.)	Not applicable.	Melting Point	165 °C
Vapor Density (AIR = 1)	Not applicable.	Evaporation Rate (Butyl Acetate = 1)	Not applicable.
Solubility in Water	Insoluble.		
Appearance and Odor	Fine red powder, practically odourless.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Not applicable.	Flammable Limits	Not applicable.
Extinguishing Media	Water, CO ₂ , Foam, Dry Chemical.		
Special Fire Fighting Procedures	Not flammable or combustible but will burn if ignited. Extinguish with water, CO ₂ , foam, dry chemical.		
Unusual Fire and Explosion Hazards	None under normal storage and use conditions.		

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FP-1300/1310R
RED TONER

SECTION V - REACTIVITY DATA

Stability	Unstable	Condition to Avoid	Abnormally high temperature.
	Stable		
Sensitivity to Shock, Friction, Static Electricity None.			
Hazardous Decomposition or Byproducts None in normal handling and use.			
Hazardous Polymerization	May Occur	Condition to Avoid	Abnormally high temperature.
	Will Not Occur		

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	✓	✓	✓
Health Hazard (Acute and Chronic) Health hazard is minimal being neither irritating, corrosive, volatile, nor toxic. Mutagenicity is negative.			
Carcinogenicity: Not use carcinogens which are listed in NTP, IARC and OSHA.			
Signs and Symptoms of Exposure Contact with eyes may result in mechanical irritation. Inhalation of dust may irritate mucous membranes. Ingestion may result in gastric disturbances.			
Medical Conditions Generally Aggravated by Exposure EYES-----Immediately wash eyes with running water for 15 minutes. If irritation develops, get medical attention. SKIN-----Wash affected areas with soap and water. If irritation develops, get medical attention. Remove and launder contaminated clothing before reuse. INGESTION----If swallowed dilute with water and immediately induce vomiting. Get medical attention if the victim is unconscious or having convulsion. INHALATION----Remove to fresh air area. Aid in breathing if necessary and get medical attention.			

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released or Spilled	Vacuum or sweep up dry powder.
Waste Disposal Method	Dispose in accordance with local, state and federal regulations.
Precautions to be Taken in Handling and Storage	Avoid dust inhalation and skin contact.
Other Precautions	Keep containers closed. Store in a cool, dry place.

SECTION VIII - CONTROL MEASURES

Respiratory Protection (Specify Type) None required under normal use.			
Ventilation	Local Exhaust	None required under normal use.	Special
	Mechanical (General)	None required under normal use.	Other
Protective Cloves	None required under normal use.	Eye Protection	None required under normal use.
Other Protective Equipment None required under normal use.			
Work/Hygiene Practices Minimize breathing dust.			

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FP-1300/1310R

Material Safety Data Sheet DRUM

(This Form is Similar to U.S. Labor Dept. Form Approved OMB No. 1218-0072)

SECTION I

Date: Jan. 12, 1988

Product Name	Chemical Name & Synonyms
FQ-H831	Aluminum (Al), Selenium (Se), Tellurium (Te)
Product Class	Emergency Phone No.
Photocoductive Drum	Matsushita Electric Industrial Co., Ltd. Japan 0286 63-3221

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

INGREDIENTS (CHEMICAL NAME)	CAS #	wt%	LISTED AS A HAZARDOUS			
			OSHA	OSHA PEL	ACGIH	ACGIH TLV
Aluminum (Al)	7429-90-5	96.0	NL		1	10mg/m ³
Se:Te Alloy	7782-49-2	3.6	1	0.2mg/M ³	1	0.2mg/m ³
Tellurium (Te)	13494-00-9	0.4	1	0.1mg/M ³	1	0.1mg/m ³

Se:Te alloy is hard vitreous substance. When coated it strongly adheres to an aluminum substrate, so there is no hazard as long as the drum is used as intended.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	1148~1328 (°F)	Specific Gravity (H ₂ O = 1)	4.3~6.3
Vapor Pressure (mm Hg.)	N. A.	Melting Point	419~473 (°F)
Vapor Density (AIR = 1)	N. A.	Evaporation Rate (Butyl Acetate = 1)	N. A.
Solubility in Water	negligible		
Appearance and Odor	brown, no odor		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	N. A.	Flammable Limits	N. A.	LEL	UEL
Extinguishing Media	Dry chemical				
Special Fire Fighting Procedures	Self contained breathing apparatus and full protection against dust and fumes. (In case that a large quantity of drums produces fumes or vapors at a high temperature)				
Unusual Fire and Explosion Hazards	Nothing				

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